GRACE BROS.
$1.50

JUMPERS AND CARDIGANS
SET - IN SLEEVES
5 PLY

BY Empisal

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KNITTED FASHIONS WITH SET IN SLEEVES

FOR THE WHOLE FAMILY – 5 PLY

CAST ON AND WELTS

All patterns are described to allow for personal choice, which to choose is left to the knitter to decide.

The choice of cast on will depend on whether or not a hem or rib is required. For a hem the open edge cast on – which is time saving – will be suitable whether the hem is turned and closed on the knitter or closed by hand when sewing up the garment.

TENSIONS

These garments are all designed for 5 ply yarn. It is necessary to produce:

14½ sts and 21 rows to 2 ins.

We suggest Tension 7.2. However, as each machine varies a little, it is advisable to check your tension. Colors and flecks also affect the tension. All garments have been worked in basic stocking stitch. However, for originality any stitch design may be combined with the instructions for number of rows, shaping, etc; but some stitch patterns produce looser fabrics than stocking stitch and others draw in the fabric. Therefore, it is worthwhile knitting an extra swatch in the chosen pattern and then making a comparison with the stocking stitch swatch – this then will enable you to adjust stitches and rows for size required.

TO CHECK TENSION

Knit a sample on the suggested tension on 60 stitches and 60 rows. Leave for at least 12 hours before measuring, which should be done over 4 ins. If the result is too many stitches per inch knit another swatch on a looser tension; if not enough stitches, tighten tension a few points.

MEASUREMENTS

JUMPERS

To fit sizes	**22**	**25**	**28**	**31**	**34**	**37**	**40**	**43**	**46**
Actual measurements	24	27	30	33	36	39	42	45	48
Length from back neck	13½	15½	17½	19½	23½	24	24½	26	26½
Sleeve length — long	11	13	15	16	17	17	17	18	18
short	2½	2½	2½	2½	3	3	3	3	3

CARDIGANS

To fit sizes	**22**	**25**	**28**	**31**	**34**	**37**	**40**	**43**	**46**
Actual measurements	25	28	31	34	37	40	43	46	49
Length from back neck	14	16	18	20	24	24½	25	26½	27
Sleeve length — long	11½	13½	15½	16½	17½	17½	17½	18½	18½
short	2½	2½	2½	2½	3	3	3	3	3

MATERIALS: 5 Ply 1 oz. Balls

For sizes	**22**	**25**	**28**	**31**	**34**	**37**	**40**	**43**	**46**
LONG SLEEVE GARMENTS									
V Neck Jumper	8	9	10	12	15	16	18	20	22
Round Neck Jumper	8	9	10	12	15	16	18	20	22
Polo Neck Jumper	9	10	11	13	16	17	19	21	23
Round Neck Cardiga n	9	10	11	13	16	17	19	21	23
V Neck Cardigan	9	10	11	13	16	17	19	21	23
SHORT SLEEVE GARMENTS									
V Neck Jumper	6	7	8	10	12	13	15	16	18
Round Neck Jumper	6	7	8	10	12	13	15	16	18
Round Neck Cardigan	7	8	9	11	13	14	16	17	19
V Neck Cardigan	7	8	9	11	13	14	16	17	19

Note: If alterations are made in length, this will affect quantities required. Synthetic yarns in general require less yarn than indicated on chart.

NECK & CARDIGAN BANDS

Although directions for knitting bands SEPARATELY are given in this book, they can be knitted directly on to the garment to save sewing on. The following instructions are for stocking stitch. If ribbed round, V or polo neck bands are favoured, the stitches are picked up in exactly the same manner as for stocking stitch bands, then knitted according to rib instructions given in this book. Ribbed cardigan bands are knitted separately and then sewn on.

V NECK BAND: Sew up one shoulder. With wrong side facing you pick up stitches from open shoulder down to V. Knit on a tension a little tighter than one used for garment. Decrease 1 stitch at V end (using 2 prong transfer tool, move 2 stitches in 1 stitch, pushing empty needle into 'A' position) every 2nd row for depth of hem, then increase 1 stitch every 2nd row for the same number of rows. Pass threaded needle through stitches on machine, then take work off machine. Pick up stitches from back neck down to V on other side and proceed as before. Join V and sew up shoulder, fold band and catch down through open stitches with needle and thread.

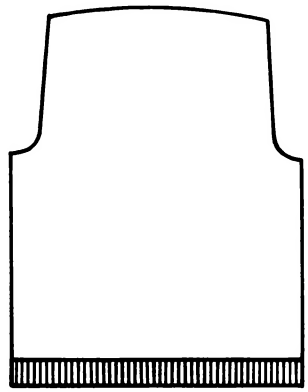
ROUND NECK: With wrong side facing, pick up stitches around neck from opening. Knit 1 row on normal tension. Then tighten tension 1 or 2 points every 2nd row for depth of band. Turning row is knitted on normal tension. Then reset tension to the one before turning row and increase tension 1 or 2 points every 2nd row for the same number of rows as before turning row, finishing at normal tension. Pass threaded needle through stitches on machine, then take work off machine. Fold band and catch down through open stitches with needle and thread.

CARDIGAN BAND: Wrong side facing, pick up stitches from centre back to end of front, or just from neck opening down to end of front – depending on type of cardigan, and knit on a tension at least 3 points tighter than that used for cardigan. Knit required number of rows for band. Turning row is knitted on garment tension and other side of band 3 points tighter again. Pass threaded needle through stitches on machine and take work off machine. Knit other side the same, putting double buttonhole where required. Fold bands and catch down through open stitches. Finish off buttonholes.

		Knit Panels
1.	Round Neck, short sleeve Jumper	A C E F or F1
2.	V-neck, long sleeve Jumper	A B D H or H1
3.	Polo Neck, long sleeve Jumper	A C D G or G1

JUMPER BACK – FOR ALL STYLES

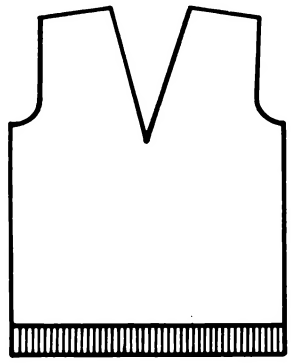
(PANEL A)



Sizes		22	25	28	31	34	37	40	43	46
1.	Cast on xxx stitches	87	97	109	119	131	143	153	165	177
2.	Knit welt – hem 40 rows									
	rib 20 rows.									
	–Change tension –									
3.	Transfer to stocking stitch and knit xxx rows above welt (adjust length)	64	78	90	104	140	140	140	146	146
4.	Row counter 000.									
5.	Cast off xxx stitches at beginning of next 2 rows	4	4	4	4	4	5	6	6	7
6.	Decrease 1 stitch each end every row xxx times	3	3	4	4	5	5	6	6	7
7.	Decrease 1 stitch each end every 2nd row xxx times	4	5	6	4	6	10	10	12	13
8.	There are now xxx stitche s	65	73	81	95	101	103	109	117	123
9.	Knit straight to xxx rows	58	66	74	78	82	88	90	102	104
	– Shape shoulder –									
10	At beginning of next xxx rows	6	6	6	6	8	8	10	10	12
	cast off xxx stitches	6	7	8	10	8	8	7	7	6
11.	Cast off remaining xxx stitches	29	31	33	35	37	39	39	47	51

JUMPER FRONT – V NECK

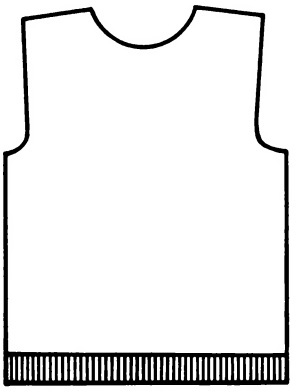
(PANEL B)



Sizes		22	25	28	31	34	37	40	43	46
1.	Follow steps 1 to 5 of Jumper back.									
2.	Decrease 1 stitch each end of work and K2 together at centre.									
3.	Work on half the stitches nearest carriage, placing other half out of action. xxx stitches	38	43	49	54	60	65	69	75	80
	Note: Steps 4 to 6 are knitted simultaneously.									
4.	At armhole edge decrease 1 stitch every row xxx times	2	2	3	3	4	4	5	5	6
5.	At armhole edge decrease 1 stitch every 2nd row xxx times	4	5	6	4	6	10	10	12	13
6.	At neck edge decrease 1 stitch every 4th row xxx times	14	15	16	17	18	19	19	23	25
7.	There are now xxx stitches	18	21	24	30	32	32	35	35	36
8.	Knit straight to xxx rows	58	66	74	78	82	88	90	102	104
	– Shape shoulder –									
9.	At beginning of every 2nd row, at armhole edge, cast off xxx stitches	6	7	8	10	8	8	7	7	6
	xxx times	3	3	3	3	4	4	5	5	6
10.	Work on other half, repeating steps 4 to 9, reversing shapings.									

JUMPER FRONT – ROUND OR POLO NECK

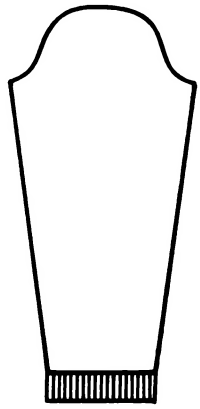
(PANEL C)



Sizes		22	25	28	31	34	37	40	43	46
1.	Follow steps 1 to 8 of Jumper back.									
2.	Knit straight to xxx rows	38	46	52	52	56	60	62	68	70
3.	Work xxx stitches nearest carriage holding remaining stitches	24	28	31	38	40	41	44	46	48
	– Shape neck –									
4.	At neck edge decrease 1 stitch every 2nd row xxx times	6	7	7	8	8	9	9	11	12
5.	There are now xxx stitches	18	21	24	30	32	32	35	35	36
6.	Knit straight to xxx rows	58	66	74	78	82	88	90	102	104
	– Shape shoulder –									
7.	At beginning of every 2nd row, at armhole edge, decrease xxx stitches	6	7	8	10	8	8	7	7	6
	xxx times	3	3	3	3	4	4	5	5	6
8.	Cast off xxx stitches at centre	17	17	19	19	21	21	21	25	27
9.	Work on other half, repeating steps 4 to 7, reversing shapings.									

JUMPER – LONG SLEEVES

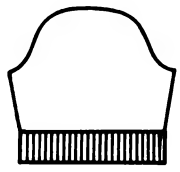
(PANEL D)



Sizes		22	25	28	31	34	37	40	43	46
1.	Cast on xxx stitches	43	51	57	61	63	65	69	75	79
2.	Knit welt – hem 40 rows rib 20 rows.									
	– Change tension –									
3.	Transfer to stocking stitch and knit xxx rows	4	4	4	4	2	2	2	2	2
4.	Increase 1 stitch each end of this and every following xxx rows	7	7	7	8	8	8	8	8	8
5.	Increase xxx times altogether	11	13	16	18	18	18	19	21	22
6.	There are now xxx stitches	65	77	89	97	99	101	107	117	123
7.	Knit straight to xxx rows above welt (adjust length)	100	116	136	148	160	160	160	174	174
	–Shape sleeve cap –									
8.	Row counter 000.									
9.	At beginning of next 2 rows cast off xxx stitches	4	4	4	4	4	5	6	6	7
10.	Decrease 1 stitch each end every 2nd row xxx times	9	6	7	7	10	11	16	13	12
11.	Decrease 1 stitch each end every row xxx times	14	22	26	30	28	26	22	30	32
12.	There are now xxx rows	34	36	42	46	50	50	56	58	58
13.	Cast off remaining xxx stitches	11	13	15	15	15	17	19	19	21
14.	Knit another sleeve the same way.									

JUMPER – SHORT SLEEVES

(PANEL E)



Sizes		22	25	28	31	34	37	40	43	46
1.	Cast on xxx stitches	51	63	75	83	85	87	93	103	109
2.	Knit welt – hem 20 rows									
	rib 10 rows.									
	– Change tension –									
3.	Transfer to stocking stitch and knit 2 rows.									
4.	Increase 1 stitch each end of this and every xxx rows	2	2	2	2	3	3	3	3	3
5.	Increase 7 times altogether.									
6.	There are now xxx stitches	65	77	89	97	99	101	107	117	123
7.	Knit to xxx rows above welt	20	20	20	20	24	24	24	24	24
8.	Continue with steps 8 to 13 of long sleeve.									

NECKBANDS – JUMPERS – USING CONTINENTAL RIB

ROUND NECK JUMPER (PANEL F)

Sizes		22	25	28	31	34	37	40	43	46
1.	Select xxx needles	99	101	109	119	125	133	137	161	171
2.	Push out of action every alternate needle.									
3.	Using winding method, cast on loosely.									
4.	Knit xxx rows	28	28	28	28	30	30	30	30	30
5.	Cast off loosely.									

Note: When attached, neckband is folded in half.

POLO NECK JUMPER (PANEL G)

Sizes		22	25	28	31	34	37	40	43	46
1.	Commence as steps 1 to 3 of round neck.									
2.	Knit xxx rows	60	60	60	60	70	70	70	70	70
3.	Cast off loosely.									

V NECK JUMPER (PANEL H)

Sizes		22	25	28	31	34	37	40	43	46
	Note: Most sizes knitted in 2 pieces.									
1.	Select xxx needles	171	193	135	139	149	161	165	183	189
	2nd piece xxx needles			79	83	89	95	99	113	115
2.	Push out of action every alternate needle.									
3.	Using winding method cast on loosely.									
4.	Knit 24 rows.									
5.	Cast off loosely.									

Note: When attached, neckband is folded in half.
See back page for attaching 2 pieces.

NECKBANDS – JUMPERS – USING RIBBER ATTACHMENT

ROUND NECK JUMPER (PANEL F1)

Sizes		22	25	28	31	34	37	40	43	46
1.	Cast on xxx stitches for Kl, Pl rib . . .	99	101	109	119	125	133	137	161	171
2.	Rib for xxx rows	28	28	28	28	30	30	30	30	30
3.	Cast off loosely.									

Note: When attached, neckband is folded in half.

POLO NECK JUMPER (PANEL G1)

Sizes		22	25	28	31	34	37	40	43	46
1.	Commence as step 1 for round neck.									
2.	Rib for xxx rows	60	60	60	60	70	70	70	70	70
3.	Cast off loosely.									

V NECK JUMPER (PANEL H1)

Sizes		22	25	28	31	34	37	40	43	46
	Note: Most sizes knitted in 2 pieces.									
1.	Cast on xxx stitches for Kl, Pl rib . . .	171	193	135	139	149	161	165	183	189
	2nd piece xxx stitches			79	83	89	95	99	113	115
2.	Rib for 12 rows.									
3.	Cast off loosely.									

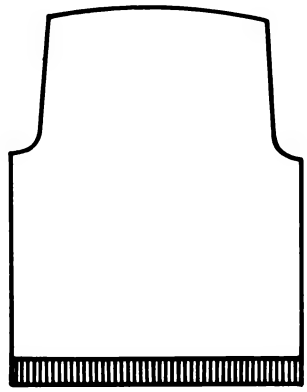
Note: See back page for attaching 2 pieces.

Note: When attaching neckbands it is best to use the cast on edge as the finished edge and attach the cast off edge to the garment.

		Knit Panels
1.	Round Neck Cardigan, long sleeves	J L M P or P1
2.	Round Neck Cardigan, short sleeves	J L N P or P1
3.	V-neck Cardigan, long sleeves	J K M O or O1
4.	V-neck Cardigan, short sleeves	J K N O or O1

CARDIGAN – BACK PANEL

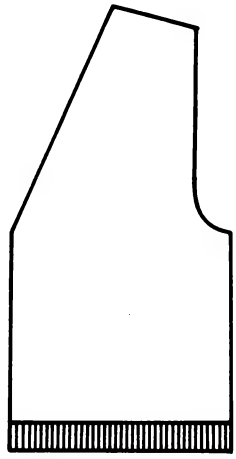
FOR ALL STYLES (PANEL J)



Sizes		22	25	28	31	34	37	40	43	46
1.	Cast on xxx stitches	91	101	113	123	135	147	157	169	181
2.	Knit welt – hem 40 rows									
	rib 20 rows.									
	– Change tension –									
3.	Transfer to stocking stitch and knit xxx rows above welt (adjust length)	68	82	94	108	144	144	144	150	150
	– Shape armhole –									
4.	Row counter 000.									
5.	At beginning of next 2 rows cast off xxx stitches	4	4	4	4	4	5	6	6	7
6.	Decrease 1 stitch each end every row xxx times	3	3	4	4	5	5	6	6	7
7.	Decrease 1 stitch each end every 2nd row xxx times	5	6	7	5	7	11	11	13	14
8.	There are now xxx stitches	67	75	83	97	103	105	111	119	125
9.	Knit straight to xxx rows	60	68	76	80	84	90	92	104	106
	– Shape shoulders –									
10.	At beginning of next xxx rows	6	6	6	6	8	8	10	10	12
	cast off xxx stitches	6	7	8	10	8	8	7	7	6
11.	Cast off remaining xxx stitches	31	33	35	37	39	41	41	49	53

CARDIGAN FRONT – V NECK

(PANEL K)

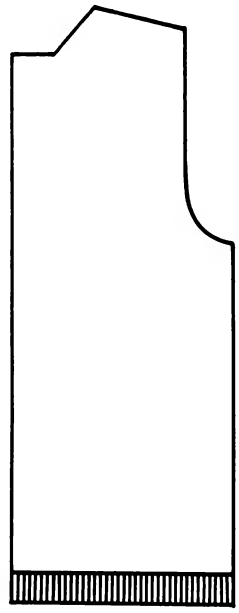


Sizes		22	25	28	31	34	37	40	43	46
1.	Cast on xxx stitches	45	49	55	61	67	73	79	83	89
2.	Knit welt – hem 40 rows.									
	rib 20 rows.									
	– Change tension –									
3.	Transfer to stocking stitch and knit xxx rows above welt (adjust length)	62	82	94	108	144	144	144	150	150
	–Shape armhole and neckline –									
4.	Row counter 000.									
5.	At armhole edge cast off xxx stitches . .	4	4	4	4	4	5	6	6	7
6.	At neck edge decrease 1 stitch.									
	Note: Steps 7 to 9 are knitted simultaneously.									
7.	At neck edge decrease 1 stitch every 4th row xxx times	14	14	15	17	18	19	20	22	24
8.	At armhole edge decrease 1 stitch every row xxx times	3	3	4	4	5	5	6	6	7
9.	At armhole edge decrease 1 stitch every 2nd row xxx times	5	6	7	5	7	11	11	13	14
10.	There are now xxx stitches	18	21	24	30	32	32	35	35	36
11.	Knit straight to xxx rows	60	68	76	80	84	90	92	104	106
	–Shape shoulders –									
12.	At beginning of every 2nd row, at armhole edge, cast off xxx stitches	6	7	8	10	8	8	7	7	6
	xxx times	3	3	3	3	4	4	5	5	6

Knit other front, reversing shapings.

CARDIGAN FRONT – ROUND NECK

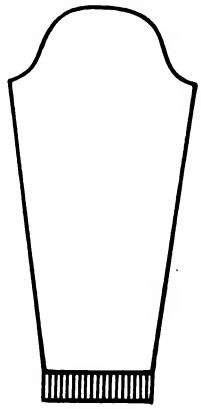
(PANEL L)



Sizes		22	25	28	31	34	37	40	43	46
1.	Follow steps 1 to 5 of V neck.									
2.	At armhole edge decrease 1 stitch every row xxx times	3	3	4	4	5	5	6	6	7
3.	At armhole edge decrease 1 stitch every 2nd row xxx times	5	6	7	5	7	11	11	13	14
4.	There are now xxx stitches	33	36	40	48	49	50	54	58	61
5.	Knit straight to xxx rows	38	46	52	52	56	60	62	68	70
	– Shape neck –									
6.	At neck edge cast off xxx stitches . . .	9	9	9	10	10	10	11	12	13
7.	At neck edge decrease 1 stitch every 2nd row xxx times	6	6	7	8	9	9	10	11	12
8.	There are now xxx stitches	18	21	24	30	32	32	35	35	36
9.	Knit straight to xxx rows	60	68	76	80	84	90	92	104	106
	–Shape shoulders –									
10.	At beginning of every 2nd row, at armhole edge, cast off xxx stitches	6	7	8	10	8	8	7	7	6
	xxx times	3	3	3	3	4	4	5	5	6
	Knit other front, reversing shapings.									

CARDIGAN – LONG SLEEVES

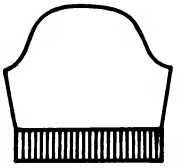
(PANEL M)



Sizes		22	25	28	31	34	37	40	43	46
1.	Cast on xxx stitches	47	55	61	65	67	69	73	79	83
2.	Knit welt – hem 40 rows									
	rib 20 rows.									
	– Change tension –									
3.	Transfer to stocking stitch and knit xxx rows	2	2	2	2	6	6	6	6	6
4.	Increase 1 stitch each end of this and every following xxx rows	7	7	7	8	8	8	8	8	8
5.	Increase xxx times altogether	11	13	16	18	18	18	19	21	22
6.	There are now xxx stitches	69	81	93	101	103	105	111	121	127
7.	Knit straight to xxx rows above welt (adjust length)	104	120	140	152	164	164	164	180	180
	– Shape sleeve cap –									
8.	Row counter 000.									
9.	At beginning of next 2 rows cast off xxx stitches	4	4	4	4	4	5	6	6	7
10.	Decrease 1 stitch each end every 2nd row xxx times	10	7	8	8	11	12	17	14	13
11.	Decrease 1 stitch each end every row xxx times	14	22	26	30	28	26	22	30	32
12.	There are now xxx rows	36	38	44	48	52	52	58	60	60
13.	Cast off remaining xxx stitches	13	15	17	17	17	19	21	21	23
	Knit another sleeve the same way.									

CARDIGAN – SHORT SLEEVES

(PANEL N)



Sizes		22	25	28	31	34	37	40	43	46
1.	Cast on xxx stitches	55	67	77	87	89	91	99	107	113
2.	Knit welt – hem 20 rows rib 10 rows.									
	– Change tension –									
3.	Transfer to stocking stitch and knit 2 rows.									
4.	Increase 1 stitch each end of this and every following xxx rows	2	2	2	2	3	3	3	3	3
5.	Increase until xxx stitches	69	81	91	101	103	105	113	121	127
6.	Knit straight to xxx rows above welt (adjust length)	20	20	20	20	24	24	24	24	24
7.	Continue with steps 8 to 13 of long sleeve.									

NECKBANDS – CARDIGANS – USING RIBBER ATTACHMENT

V NECK CARDIGAN (PANEL O)

Sizes		22	25	28	31	34	37	40	43	46
1.	Cast on 15 stitches for Kl, Pl rib.									
2.	Rib 5 rows.									
3.	Make buttonholes in next and every following xxx rows	21	24	22	25	26	26	26	28	28
4.	Make xxx buttonholes altogether . . .	5	5	6	6	6	7	7	7	7
5.	Continue ribbing until xxx rows from beginning	308	352	392	428	516	524	532	568	580
6.	Cast off loosely.									

Note: If length of garment is altered adjust the band by double the number of altered rows.

ROUND NECK CARDIGAN (PANEL P)

Sizes		22	25	28	31	34	37	40	43	46
Front Band without Buttonholes										
1.	Cast on 15 stitches for Kl, Pl rib.									
2.	Rib for xxx rows	140	160	178	190	227	236	236	250	250
3.	Cast off.									

Note: If length of garment is altered adjust band by same number of rows.

Front Band with Buttonholes

1.	Cast on 15 stitches for Kl, Pl rib.									
2.	Rib 5 rows.									
3.	Make buttonhole in next and every following xxx rows	26	30	28	30	31	32	32	30	30
4.	Make xxx buttonholes altogether . . .	6	6	7	7	8	8	8	9	9
5.	Rib 5 rows.									
6.	Cast off.									

See note for 'without buttonholes'.

Neckband

1.	Cast on xxx stitches for Kl, Pl rib . . .	105	105	113	121	133	135	141	165	165
2.	Rib 12 rows.									
3.	Cast off loosely.									

Note: It is best to use cast on edge as finished edge and attach cast off edge to garment. Front bands extend to form part of the neckband.

V NECK CARDIGAN (PANEL 01)

Sizes	22	25	28	31	34	37	40	43	46
1. Select 32 needles.									
2. Push out of action every alternate needle.									
3. Using winding method, cast on.									
4. Knit 5 rows.									
5. Make buttonholes on 4th stitch in from each end.									
6. Knit xxx rows	21	24	22	25	26	26	26	28	28
7. Repeat steps 5 and 6 until xxx series of buttonholes are made	5	5	6	6	7	7	7	7	7
8. Continue knitting until xxx rows from beginning	308	352	392	428	516	524	532	568	580
9. Cast off.									

Note: If length of garment is altered adjust the band by double the number of altered rows.

ROUND NECK CARDIGAN (PANEL P1)

Sizes	22	25	28	31	34	37	40	43	46

Front Band Without Buttonholes

1. Follow steps 1 to 3 of V neck.									
2. Knit for xxx rows	140	160	178	190	227	236	236	250	250
3. Cast off.									

Note: If length of garment is altered adjust bands by same number of rows.

Front Band With Buttonholes

1. Follow steps 1 to 3 of V neck.									
2. Make buttonholes on 4th stitch in from each end.									
3. Knit xxx rows	26	30	28	30	31	32	32	30	30
4. Repeat steps 2 and 3 until xxx series of buttonholes are made	6	6	7	7	8	8	8	9	9
5. Knit 5 rows.									

See note for 'without buttonholes'.

Neckband

1. Select xxx needles	105	105	113	121	133	135	141	165	165
2. Push out of action every alternate needle.									
3. Using winding method cast on loosely.									
4. Knit 24 rows.									
5. Cast off loosely.									

Note: Front bands extend to form part of neckband.

COMPLETION OF GARMENTS

ALL STYLES

1. Press all pieces lightly with a damp cloth.
2. Sew up the shoulder seams.
3. Sew the side and sleeve seams.
4. Sew in the sleeves – matching the shoulder seam to centre of sleeve cap and matching side and sleeve seams.

   NOTE: The garment is eased to fit the sleeve.

ATTACHING NECKBANDS

Round Neck Jumper

For both Continental rib and rib sew the neckband evenly around the neck with seam at shoulder – fold in half and slip stitch.

Polo Neck Jumper

Continental Rib – attach as for round neck jumper.

Rib – sew cast off edge to the neckline.

V Neck Jumper

Continental Rib – sew band around neck commencing with e nds at the V – with 2 pieces, the second joins at a shoulder seam – fold the band in half and slip stitch – make a mitred corner at the V.

Rib – sew band around neck using the cast off edge commencing at the V – with 2 pieces, the second joins at a shoulder seam – mitre the ends at the V.

Round Neck Cardigan

Continental Rib – attach the neckband evenly, fold in half and slip stitch. Attach the bands down each front commencing at the top of the neckband – fold in half and slip stitch. Catch the buttonholes together.

Rib – attach the neckband evenly around neck using cast off edge – attach bands from top of neckband.

V Neck Cardigan

Continental Rib – attach band evenly around neckline, fold in half and slip stitch. Catch the buttonholes together.

Rib – attach evenly around neckline.